

Gemini 620pd

Multibeam Profiling Sonar

High resolution profiling from the Gemini range of multibeam

The Gemini 620pd benefits from the latest technological advances in signal processing. These advances allow the 620pd to produce high performance bathymetry data, which is in turn output to industry recognized survey packages for processing.



Operating at 620kHz the Gemini 620pd is able to provide 10mm range resolution results with an angular resolution of 0.5° . The Gemini 620pd is able to deal with more varied environments, while continuing to provide high accuracy performance.

4000m depth rated and designed to be run in a dual head configuration as a high-speed replacement for the SeaKing DFP, or in a single head configuration for bathymetry surveys, the Gemini 620pd can be used from a vessel or on an ROV.

The Gemini 620pd software has been produced with ease of use in mind and allows the operator to configure the system for optimum performance.

Benefits

- High resolution performance
- 130° swath
- 4000m Titanium housing

Features

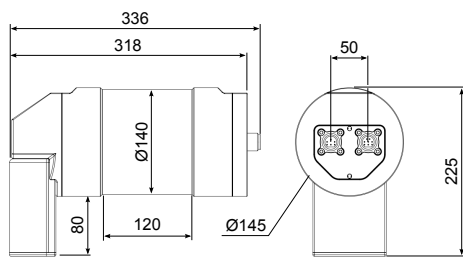
- Ethernet and VDSL communications
- Compatible with industry survey packages
- Forward or Downward configuration

Applications

- Oceanographic surveys
- Bathymetric surveys
- Pipe/Trench surveying

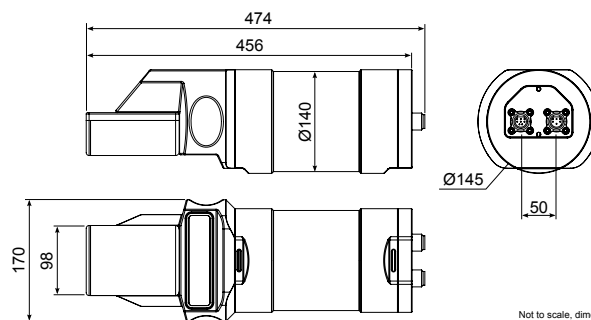
Document: 0695-SOM-00002, Issue: 01

Specification



Not to scale, dimensions in mm.

Forward Facing Profiler



Not to scale, dimensions in mm.

Downward Facing Profiler

Acoustic Properties

Operating Frequency	620kHz
Angular Resolution	1.0° acoustic, 0.5° effective
Scanning Sector	130°
Number of Beams	256
Vertical Beamwidth	1°
Range	1.5 to 120m
Scan Rate	2-50Hz (inter-ping time dependent)
Range Resolution	10mm

Electrical and Communications

Power Consumption	37W max (ping rate dependent, head unit only)
Supply Voltage	20 - 75V DC
Data Communications	Ethernet (up to 80m) or VDSL (up to 1000m)



VDSL Cable Length

Maximum length for VDSL and power is 300m, if power is provided locally (e.g., by the ROV) then maximum cable length for VDSL communication is 1000m.

Physical Properties

Property	Forward Facing	Downward Facing
Weight	13.7kg air, 8.5kg water	18kg air, 12kg water
Depth Rating	4000m	
Material	Titanium (6 AL-4V)	
Finish	Bead blasted	
Operating Temperature	-10 to 35°C	
Storage Temperature	-20 to 50°C	

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